

California Water Plan Overview

*Integration of the New
Update 2013 Finance Plan*

**Finance Caucus
May 19, 2011**

California **Water Plan** Highlights

INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

Water Plan Update 2009

*A Foundation for
Update 2013 Finance Plan*

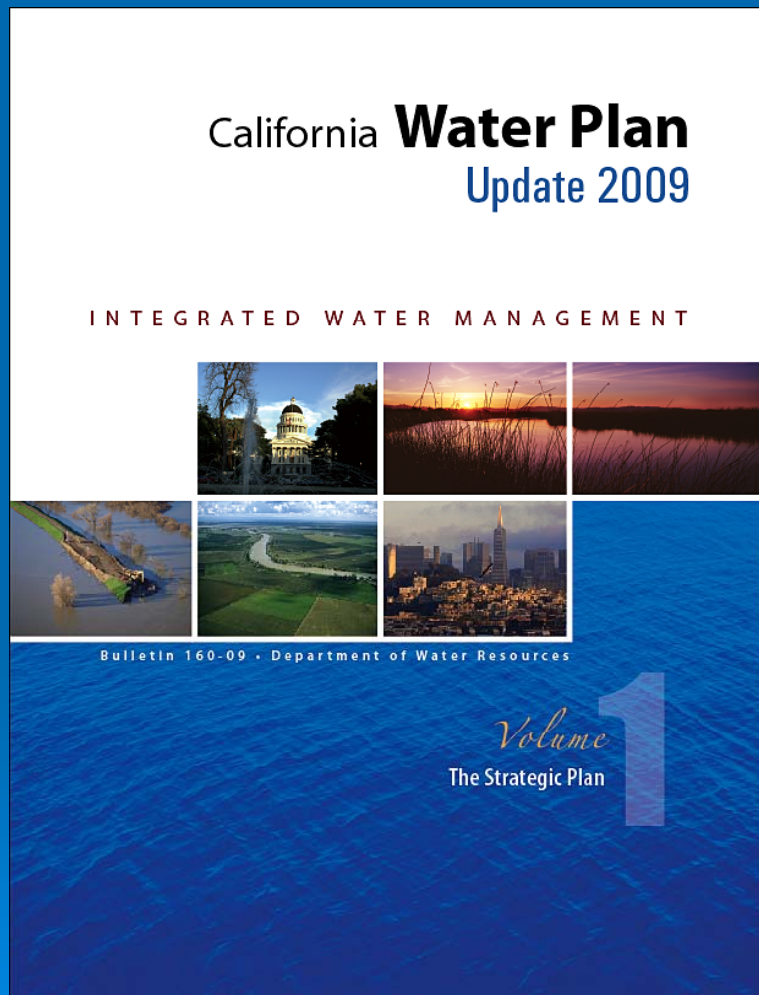
Update 2009 – State's Blueprint Integrated Water Management & Sustainability



Project Organization and Public Process California Water Plan Update 2009



Water Plan Update 2009 Organization



- Water Plan Highlights
 - CD - Entire Water Plan
 - CD - Tribal Water Summit Proceedings
- Vol. 1 > The Strategic Plan
- Vol. 2 > 27 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide (120+ articles)
- Vol. 5 > Technical Guide (Online documentation)

Update 2013 Finance Plan

Implementing Update 2009

“California needs a water finance plan with stable, continuous funding from an array of revenue sources... The finance plan should recognize the critical role of public-private partnerships and the principle of beneficiary pays; include alternative revenue sources; and guide investment decisions based on sustainability indicators”.

California Water Plan Update 2009

Water Plan Update 2013

*Integration of
Update 2013 Finance Plan*

Foundational Components

Foundational Component – An Update 2009 feature with sufficient value to retain for Update 2013

- ✿ Strategic Plan
- ✿ Water Balances and Portfolios
- ✿ Regional Reports
- ✿ Future Scenarios
- ✿ Resource Management Strategies
- ✿ Companion State Plans
- ✿ Reference Guide
- ✿ Technical Guide
- ✿ Assumptions and Estimates Report

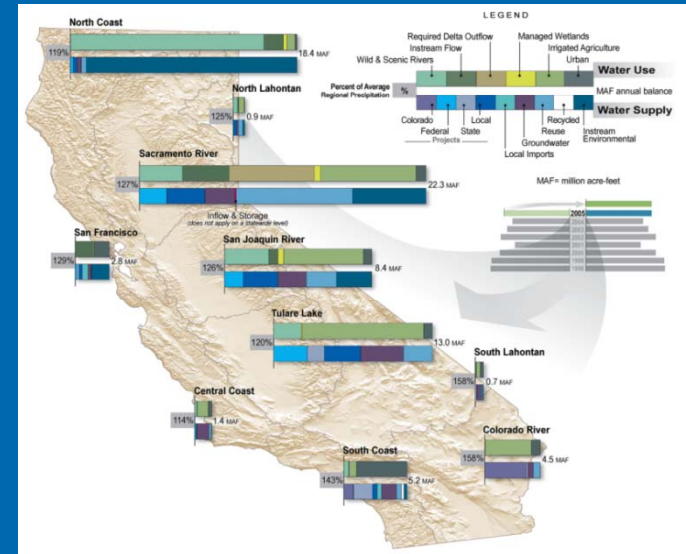
Water Plan Update Strategic Plan Relevance to Finance Plan

- Update 2005 Strategic Plan informed Proposition 84 language
- Update 2009 Strategic Plan informed IRWM financial assistance criteria
- Both will evolve into the basis for developing Update 2013 Finance Plan *Guiding Principles and Criteria for Prioritizing State Funding, Recommendations* and other sections
- High-level finance recommendations will be published in Update 2013 Strategic Plan



Water Plan Update Water Portfolios Relevance to Finance Plan

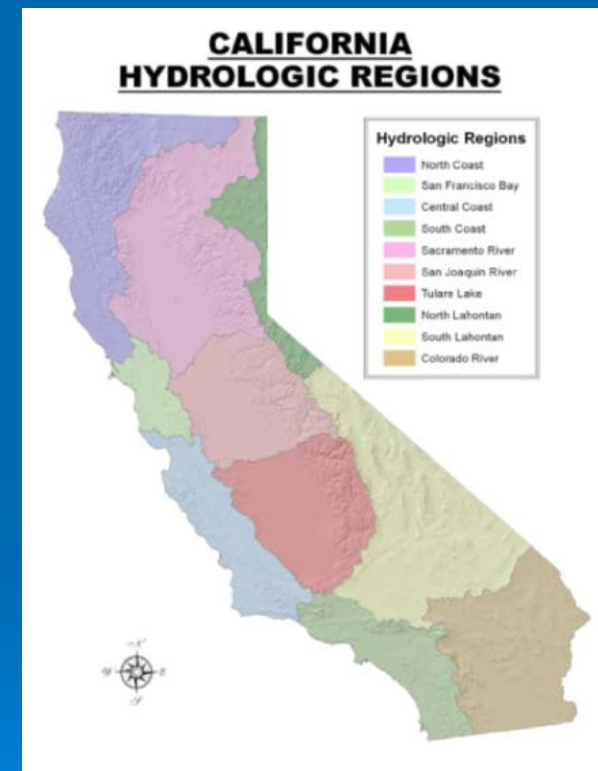
- Context for historical water use and corresponding sources
- Articulates statewide water use as well as regional variability
- Used to identify trends, challenges and opportunities at the statewide and regional scales



Regional Reports

Relevance to Finance Plan

- ✿ Articulation of information, data, challenges, opportunities and regional resource management objectives
- ✿ Funding proposals and priorities will be derived, in part, from regional reports
- ✿ Ensure regionally relevant solutions

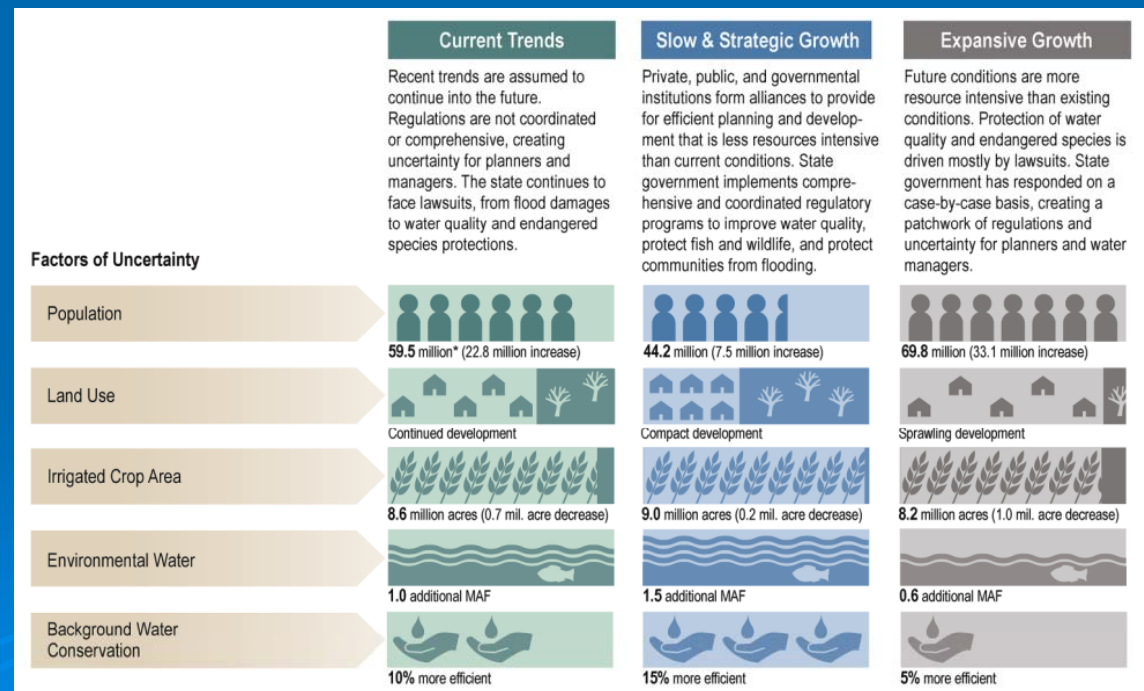


Water Plan Update *Future Scenarios*

Relevance to Finance Plan

- Three plausible sets of future conditions that can affect the necessity for (and performance of) management strategies

- Used to assess trade-offs and resiliency of resource management strategies packages to guide funding recommendations



Water Plan Update Resource Management Strategies Relevance to Finance Plan

- Finance Plan policy and action recommendations will draw from menu of Resource Management Strategies
- Serves as one source of information for estimating statewide IWM costs through 2050

California Water Plan Update 2009 | Highlights

Resource Management Strategies:

Integrated water management undertakes water and flood management at all fronts and on many levels—regionally and statewide, for multiple uses and benefits, for sustaining watersheds, water uses, and water and flood management systems, while weighing the risks of uncertain futures. The 27 resource management strategies presented here provide a range of choices and are the building blocks for this approach. The strategies are grouped by their intended outcome, and the potential benefits and implementation cost are presented for each strategy.

Reduce Water Demand
Water conservation has become a viable long-term supply option because it saves considerable capital and operating costs for utilities and consumers, avoids environmental degradation, and creates multiple benefits.

Strategy	WSP Year*	Potential Strategy Benefits	Estimated Savings (\$B/year)
Agricultural Water Use Efficiency	2015-2050	100% 100% 100% 100%	0.1-0.9
Urban Water Use Efficiency	2015-2050	100% 100% 100% 100%	12-31

Improve Operational Efficiency & Transfers
California's water system responds to our need to move water from where it occurs to where it will be used.

Strategy	WSP Year*	Potential Strategy Benefits	Estimated Savings (\$B/year)
Conveyance—Delta	2015-2050	100% 100% 100% 100%	0.1-0.6
Conveyance—Regional/Local	2015-2050	100% 100% 100% 100%	12-172
System Expansion	2015-2050	100% 100% 100% 100%	0.1-0.4
Water Transfers	2015-2050	100% 100% 100% 100%	0.1-0.4

Increase Water Supply
California's communities are finding innovative ways to generate new supplies.

Strategy	WSP Year*	Potential Strategy Benefits	Estimated Savings (\$B/year)
Conveyance Management & Groundwater Storage	2015-2050	100% 100% 100% 100%	0.1-0.3
Desalination—Brackish & Seawater	2015-2050	100% 100% 100% 100%	0.1-0.4
Precipitation Enhancement	2015-2050	100% 100% 100% 100%	0.1-0.4
Recycled Municipal Water	2015-2050	100% 100% 100% 100%	0.1-0.4
Surface Storage—CALFED	2015-2050	100% 100% 100% 100%	0.1-0.4
Surface Storage—Regional/Local (under development)	2015-2050	100% 100% 100% 100%	0.1-0.4

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Resource Management Strategies:

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Improve Water Quality
Improved water quality can directly improve the health of Californians and our ecosystem. We must protect other resources as we make water supplies available for other beneficial uses.

Strategy	WSP Year*	Potential Strategy Benefits	Estimated Savings (\$B/year)
Drinking Water Treatment and Distribution	2015-2050	100% 100% 100% 100%	0.1-0.4
Groundwater/Aquifer Remediation	2015-2050	100% 100% 100% 100%	0.1-0.4
Matching Quality to Use	2015-2050	100% 100% 100% 100%	0.1-0.4
Pollution Prevention	2015-2050	100% 100% 100% 100%	0.1-0.4
Soil and Sediment Management	2015-2050	100% 100% 100% 100%	0.1-0.4
Urban Runoff Management	2015-2050	100% 100% 100% 100%	0.1-0.4

Practice Resource Stewardship
We must protect other resources as we make water supplies available for other beneficial uses.

Strategy	WSP Year*	Potential Strategy Benefits	Estimated Savings (\$B/year)
Agricultural Land Stewardship	2015-2050	100% 100% 100% 100%	0.1-0.4
Economic Incentives (Leases, Grants, Water Pricing)	2015-2050	100% 100% 100% 100%	0.1-0.4
Ecosystem Restoration	2015-2050	100% 100% 100% 100%	0.1-0.4
Forest Management	2015-2050	100% 100% 100% 100%	0.1-0.4
Land Use Planning and Management	2015-2050	100% 100% 100% 100%	0.1-0.4
Recharge Area Protection	2015-2050	100% 100% 100% 100%	0.1-0.4
Water-dependent Recreation	2015-2050	100% 100% 100% 100%	0.1-0.4
Watershed Management	2015-2050	100% 100% 100% 100%	0.1-0.4

Improve Flood Management

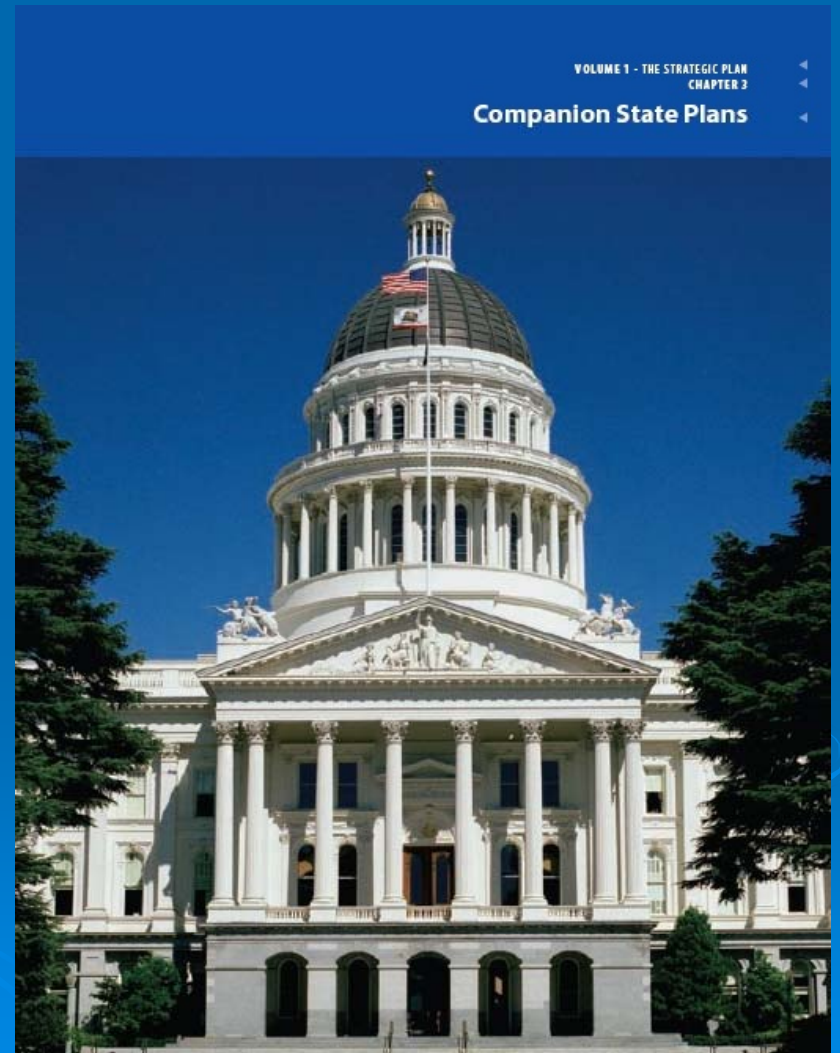
Strategy	WSP Year*	Potential Strategy Benefits	Estimated Savings (\$B/year)
Flood Risk Management	2015-2050	100% 100% 100% 100%	0.1-0.4

4. Numbers are for baseline restoration only.

Find descriptions of 27 resource management strategies in Volume 2

Water Plan Update State and Federal Companion Plans Relevance to Finance Plan

- ❁ Actions, programs and policies that require funding and are within the scope of IWM can manifest into recommendations in the Finance Plan
- ❁ Coordination and consolidation of emerging state funding recommendations; particularly any new revenue proposals



➤ Integrated Water Management

- Expand on water quality
- Continue integrated flood mgmt
- Expand on groundwater
- Add near coastal resources

➤ Regional Planning

- Expand on land use & water mgmt nexus
- Incorporate UWMP content
- Expand economic & financial planning

➤ Data, Metrics & Analysis

- Improve data mgmt & sharing
- Enhance inter-disciplinary technical analyses
- Develop metrics & sustainability indicators
- Develop CA Water Mgmt Progress Report

➤ Adaptive Management

- Revisit environmental water concept
- Use Living Document approach
- Use multiple & shorter planning horizons
- Identify outdated water codes & laws

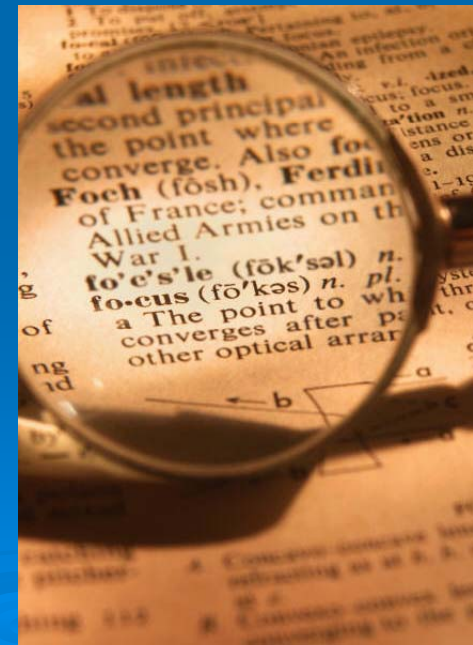
Content Enhancements



California Water Plan Update 2013

Early FOCUS Topics / Caucuses

- ✿ Update 2013 Integrated Water Management Finance Plan
- ✿ Reinventing Regional Reports
- ✿ Groundwater
- ✿ Statewide Integrated Flood Planning
- ✿ New Water Technology / R&D

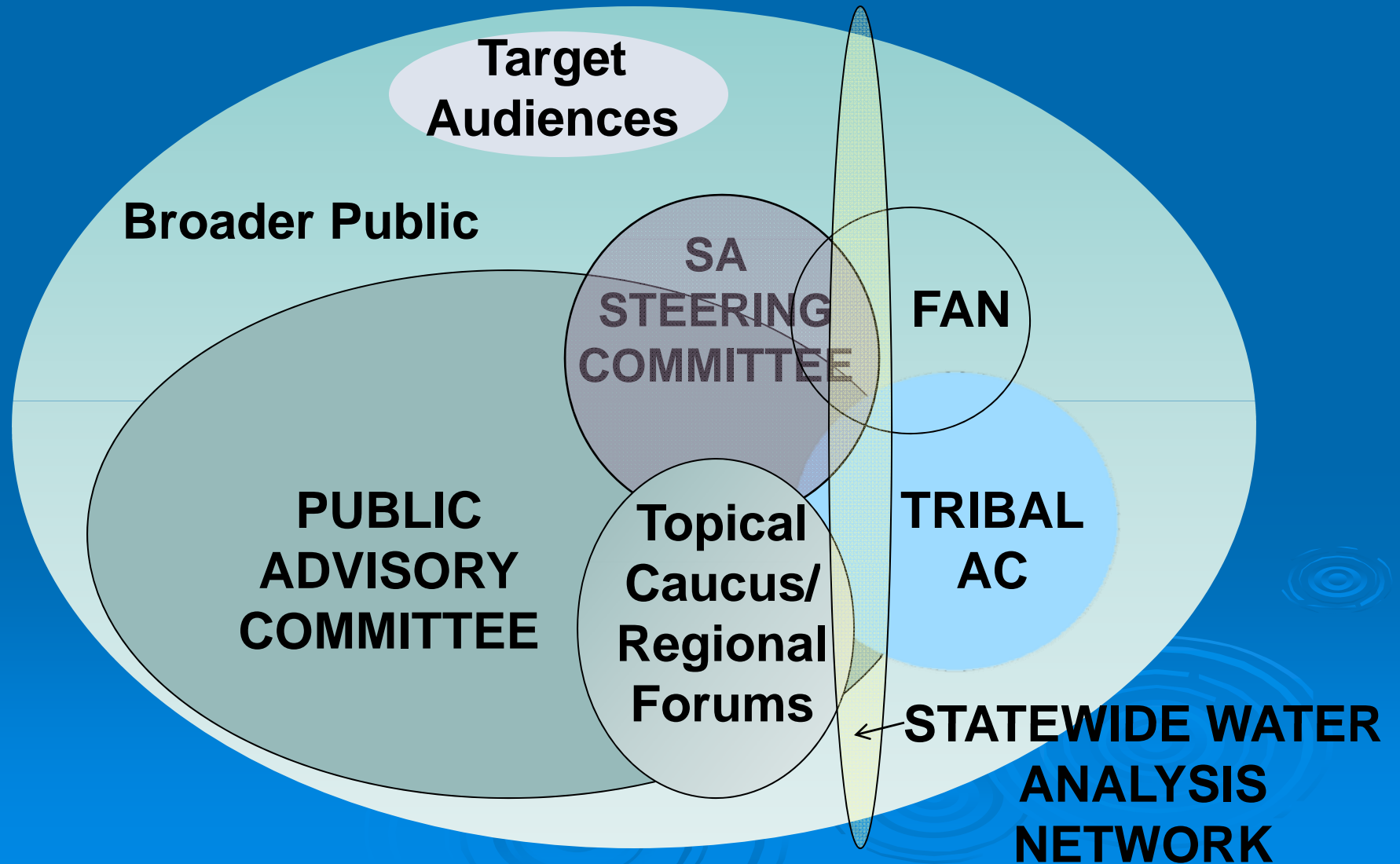


Update 2013 Outreach Venues

- ✿ State Agency Steering Committee *(30 State Agencies)*
- ✿ Federal Agency Network
- ✿ Tribal Advisory Committee
- ✿ Public Advisory Committee
- ✿ Regional Forums
- ✿ Topic-based Caucuses
- ✿ SWAN - Statewide Water Analysis Network
- ✿ Annual Plenary Meetings
- ✿ California Water Commission Coordination



Update 2013 Collaboration Venues



Ways to Access Water Plan Information

- Visit the *Water Plan Web Portal*
www.waterplan.water.ca.gov



- Subscribe to *Water Plan eNews*
a weekly electronic newsletter
www.waterplan.water.ca.gov/enews

